

SUBSTITUTE FORM PTO-1449  
(MODIFIED)DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
09850/00500

SERIAL NO.

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)APPLICANT  
Robert A. Sanderson et al.FILING DATE  
Herewith

GROUP

(37 CFR 1.98(b))

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PK	AA	5	7	6	2	0	3	9	06/09/98	Gonzalez	123	197.3	
	AB	5	6	0	5	1	2	0	02/25/97	Hedelin	123	78	
	AC	5	5	7	2	9	0	4	11/12/96	Minculescu	74	45	
	AD	5	5	6	2	0	6	9	10/08/96	Gillbrand et al.	123	48	
	AE	5	5	3	5	7	0	9	07/16/96	Yashizawa	123	63	
	AF	5	3	2	9	8	9	3	07/19/94	Drangel et al.	123	78	
	AG	5	3	3	6	0	5	6	08/09/94	Kimura et al.	417	222	
	AH	5	2	8	0	7	4	5	01/25/94	Maruno	91	477	
	AI	5	2	6	1	3	5	8	11/16/93	Rorke	123	47R	
	AJ	5	1	3	6	9	8	7	08/11/92	Schechter et al.	123	48	
	AK	5	0	9	4	1	9	5	03/10/92	Gonzalez	123	58	
	AL	5	0	2	5	7	5	7	06/25/91	Larsen	123	48	
	AM	5	0	0	7	3	8	5	04/16/91	Kitaguchi	123	48	
	AN	4	9	2	0	8	5	9	05/01/90	Smart et al.	91	497	
	AO	4	8	6	9	2	1	2	09/26/89	Sverdlin	123	56	

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
PK	AP	698,243	10/1940	Germany	123	56.1		
	AQ	WO 92/11449	07/1992	WIPO	123	56.1		
	AR	2 566 460	12/1985	France	123	56.1		
	AS							
	AT							

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	AU		
	AV		

EXAMINER

DATE CONSIDERED

10/11/01

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449  
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09/696,139

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(37 CFR 1.98(b))

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Robert A. Sanderson et al.FILING DATE  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JK	AA	5	6	3	4	8	5	2	6/3/97	Kanamaru	464	138	
	AB	5	5	5	3	5	8	2	9/10/96	Speas	423	56.4	
	AC	5	1	2	9	7	9	7	7/14/92	Kanamaru	417	500	
	AD	5	1	1	3	8	0	9	5/19/92	Ellenburg	123	58	
	AE	5	0	2	7	7	5	6	7/2/91	Shaffer	123	58	
	AF	4	8	5	2	4	1	8	8/1/89	Armstrong	74	60	
	AG	4	7	0	8	0	9	9	11/24/87	Ekker	123	54A	
	AH	4	4	3	3	5	9	6	2/28/84	Scalzo	74	839	
	AI	4	2	3	5	1	1	6	11/25/80	Meijer et al.	74	60	
	AJ	4	1	7	8	1	3	5	12/11/79	Roberts	417	222	
	AK	4	1	7	4	6	8	4	11/20/79	Roseby et al.	123	48	
	AL	4	1	6	8	6	3	2	9/25/79	Fokker	74	60	
	AM	4	1	1	2	8	2	6	9/12/78	Cataldo	92	13.1	
	AN	4	0	6	6	0	4	9	1/3/78	Teodorescu et al.	123	48	
	AO	3	9	6	8	6	9	9	7/13/76	van Beukering	74	60	
	AP	3	9	5	9	9	8	3	6/1/76	Roberts et al.	62	226	
	AQ	3	8	4	7	1	2	4	11/12/74	Kramer	123	51	
	AR	3	0	0	0	3	6	7	09/19/61	Eagleson	123	53	

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
JK	AS	WO 97/10415	3/20/97	PCT				
	AT	DE 37 00 005 A1	7/14/88	German				
	AU	62-113938	4/25/87	Japan				
	AV	61-212656	9/20/86	Japan				
	AW	DE 29 31 377	2/26/81	German				

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

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Kramer

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AK	BA	5 8 9 4 7 8 2	04/20/99	Nissen et al.			
AK	BB	5 8 9 7 2 9 8	04/27/99	Umemura			
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	BL					
	BM					
	BN					
	BO					
	BP					

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	BQ		
	BR		
	BS		

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NK	BA 4 7 8 0 0 6 0	10/25/88	Terauchi	417	222	
	BB 4 5 6 9 3 1 4	02/11/86	Hilu	123	58	
	BC 4 4 8 9 6 8 2	12/25/84	Kenny	123	58	
	BD 4 2 9 4 1 3 9	10/13/81	Bex et al.	74	839	
	BE 4 2 8 5 3 0 3	08/25/81	Leach	123	51	
	BF 4 2 0 8 9 2 6	06/24/80	Hanson	74	191	
	BG 4 2 0 3 3 9 6	05/20/80	Berger	123	58	
	BH 4 1 5 2 9 4 4	05/08/79	Kemper	74	191	
	BI 4 1 4 4 7 7 1	03/20/79	Kemper et al.	74	60	
	BJ 4 0 9 4 2 0 2	06/13/78	Kemper	74	60	
	BK 4 0 7 7 2 6 9	03/07/78	Hodgkinson	74	60	
PK MS	BL 4 0 1 1 8 4 2	03/27/11	Davies et al.	123	61R	
	BM 3 9 3 9 8 0 9	02/24/76	Rohs	123	58	
	BN 3 8 6 1 8 2 9	01/21/75	Roberts et al.	417	53	
	BO 3 5 4 9 0 6	04/11/72	Airas	123	43	

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
					YES NO
BP					
BO					

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BR		
BS		

EXAMINER

Kemper

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AK	AA	4 7 7 6 2 5 9	10/11/88	Takai	92	71	
	AB	4 4 1 8 5 8 6	12/06/83	Maki et al.	74	831	
	AC	4 2 9 7 0 8 5	10/27/81	Brucken	417	222	
	AD	4 2 8 5 6 4 0	08/25/81	Mukai	417	269	
	AE	4 2 7 0 4 9 5	06/02/81	Freudenstein et al.	123	54	
	AF	4 1 7 8 1 3 6	12/11/79	Reid et al.	417	269	
	AG	3 5 2 8 3 1 7	09/15/70	Cummins	74	598	
	AH	3 3 8 6 4 2 5	06/68	Morsell	123	61R	
	AI	3 1 9 8 0 2 2	08/03/65	Algor de Waern	74	60	
	AJ	3 1 8 2 6 4 4	05/65	Drtina	123	56.1	
	AK	3 0 7 7 1 1 8	02/12/63	Robbins	74	60	
	AL	3 0 7 6 3 4 5	02/05/63	Leclercq	74	60	
	AM	2 6 5 3 4 8 4	09/29/53	Zecher	74	40	

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AK	AN	DE 27 51 846	11/19/77	Germany				
	AO	1 037 799	12/01/58	Germany				
	AP	1.015.857	10/27/52	France				
	AQ	515359	12/18/30	Germany				
	AR	89352	12/31/1895	Germany				

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

AK	AS	Freudenstein, "Kinematic Structure of Mechanisms for Fixed and Variable-Stroke Axial-Piston Reciprocating Machines", Journal of Mechanisms, Transmissions, and Automation in Design, Vol. 106, pp. 355-363, 1984.
AK	AT	Freudenstein, "Development of an Optimum Variable-Stroke Internal-Combustion Engine Mechanism From the Viewpoint...", Journal of Mechanisms, Transmissions, and Automation in Design, Vol. 105, pp. 259-266, 1984.
	AU	

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NK	BA 3 1 7 6 6 6 7	4/6/65	Hamner	123	43	
	BB 2 9 4 0 3 2 5	6/14/60	Hakesch	74	60	
	BC 2 9 1 0 9 7 3	11/3/59	Witzky	123	48	
	BD 2 2 6 3 5 6 1	11/25/41	Biermann	74	60	
	BE 2 2 5 6 0 7 9	9/16/41	Dinzi	103	162	
	BF 2 0 4 8 2 7 2	7/21/36	Linthicum	103	173	
	BG 2 0 4 2 7 3 0	6/2/36	Redrup	123	190	
	BH 1 9 6 8 4 7 0	7/31/34	Szombathy	123	58	
	BI 1 6 4 8 0 0 0	11/8/27	Lee			
	BJ 1 5 7 7 0 1 0	3/16/26	Whitley			
	BK 1 2 5 5 9 7 3	2/12/18	Almen			
	BL 1 2 1 0 6 4 9	1/2/17	Holley et al.			
	BM 1 0 1 9 5 2 1	3/5/12	Pratt			
	BN 8 2 1 5 4 6	5/22/06	Smallbone			
	BO 8 1 2 6 3 6	2/13/06	Callan			
	BP					

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
NK	BQ GB 2 030 254	10/3/78	UK				
	BR 55-37541	9/9/78	Japan				
	BS 1,416,219	9/20/65	France				
	BT 1 451 926	5/7/65	German				
	BU 461,343	12/26/13	France				

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

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GROUP

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
UK	CA	2 5 3 2 2 5 4	11/28/50	Bouchard	74	60	
	CB	2 5 1 3 0 8 3	06/27/50	Eckert	74	60	
	CC	2 4 6 5 5 1 0	3/10/23/44	Bonnafé	103	162	
	CD	1 7 7 2 9 7 7	08/30	Arrighi	123	56.1	
	CE	1 6 7 3 2 8 0	06/12/28	Evans			
	CF	1 6 5 9 3 7 4	2/25/05/23	Robson			
	CG	7 4 8 5 5 9	12/29/03	Peet			
	CH						
	CI						
	CJ						
	CK						
	CL						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	CN					
	CN					
	CO					
	CP					
	CQ					

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

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DATE CONSIDERED

10/11/01

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Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement          by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 09850-00500	Application No.
	Applicant Robert A. Sanderson et al.			
	Filing Date		Group Art Unit	

 10/25/00  
 09/696139  
 10/25/00

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
AK	AL	121,961	01/08/20	United Kingdom				
AK	AM	345,813	07/25/17	Germany				
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	PCT/US99/21125 International Search Report
	AR	
	AS	
	AT	

Examiner Signature <i>Keller</i>	Date Considered 10/11/01
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850-00500	Application No.
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Robert A. Sanderson et al.	
		Filing Date	Group Art Unit

10/25/00  
09/696139  
U.S. PTO

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
NA	AA	3,877,839	04/15/75	Ifield			
NA	AB	4,966,042	10/30/90	Brown			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
NA	AN	GB 651893	04/11/51	Great Britain				
NA	AO	DE 2612270	09/22/77	Germany				
	AP							
	AQ							
	AR							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AS	<del>International Search Report dated September 10, 2000</del> (App. No. PCT US 00/21150).
	AT	<del>International Search Report dated September 10, 2000</del> (App. No. PCT US 00/21245).
	AU	
	AV	

Examiner Signature <i>Kenn</i>	Date Considered 10/11/01
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
09850-00500

Application No.

09/06/96, 139

Information Disclosure Statement  
by Applicant

(Use several sheets if necessary)

(37 CFR 51.98(b))

Applicant  
Sanderson et al.

Filing Date

Group Art Unit

## U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
NK	AA	5,890,462	04/06/99	Bassett			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	N
NK	AL	1,595,600	08/21/81	UK				
	AM							
	AN							
	AO							
	AP							

## Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature

Kaefer

Date Considered

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NK	AA	3 9 4 5 3 5 9	03/23/76	Asaga	123	58	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

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	AG							
	AR							
	AS							

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
UK	AA	3	6	5	4	9	0	6	04/11/72	Airas			
	AB	4	1	0	0	8	1	5	07/18/78	Kemper			
	AC	5	0	0	2	4	6	6	03/26/91	Inagaki et al.			
	AD	5	2	0	1	2	6	1	04/13/93	Kayukawa et al.			
	AE	5	4	3	7	2	5	1	08/01/95	Anglim et al.			
	AF	5	5	9	6	9	2	0	01/28/97	Umemura et al.			
	AG	5	6	3	0	3	5	1	05/20/97	Clucas			
	AH	5	6	9	9	7	1	6	12/23/97	Ota et al.			
	AI	5	7	6	8	9	7	4	06/23/98	Ikeda et al.			
	AJ	5	7	8	5	5	0	3	07/28/98	Ota et al.			
	AK	5	8	3	9	3	4	7	11/24/98	Nomura et al.			

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	AQ							
	AR							
	AS							

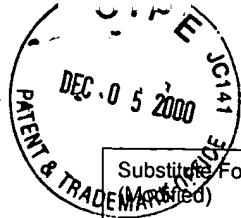
EXAMINER

*Kemper*

DATE CONSIDERED

10/11/01

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Substitute Form PTO-1449 (Rev. 10-1-97)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850-005005	Application No. 09/696,139
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Robert A. Sanderson, et al.	
		Filing Date October 25, 2000	Group Art Unit

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
NK	AA	5,542,382	08/06/96	Clarke			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
NK	AL	DE 26 12 270	09/22/77	Germany			x	
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
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	AQ	
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	AS	
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Examiner Signature 	Date Considered 10/11/01
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	